

REQUEST TO PROCUREMENT DIVISION FOR SERVICES

(other than property or building maintenance and repairs)

OFFICE/DIV/BR TSSC/RED/ATB	REQUEST NO. 5500- -90	DATE OF REQUEST 23/13/70	I CERTIFY THAT FUNDS IN THE ESTIMATED AMOUNT OF \$ _____ ARE AVAILABLE. CHARGE TO FAN _____
PROJECT TITLE OPTICAL IMAGE MANIPULATION	PROJECT OR CONTACT OFFICER []	EXTENSION B- [] R- []	SIGNATURE OF BUDGET OFFICER DATE 25X1

AL NO. AND DATE 1P-70-5 16/70	CONTRACT & TASK ORDER NO. (if known)
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TYPE OF SERVICE REQUESTED	APPLICABLE ONLY TO REPAIRS AND MODIFICATIONS
<input checked="" type="checkbox"/> RESEARCH/DEV <input type="checkbox"/> GRANT <input type="checkbox"/> REPAIR <input type="checkbox"/> MAINTENANCE <input type="checkbox"/> MODIFICATION	TECHNICAL INSPECTION IS REQUIRED BY <input type="checkbox"/> RECEIVING DEPOT T & I <input type="checkbox"/> TECHNICAL MONITOR <input type="checkbox"/> ITEMS TO BE PICKED UP OR <input type="checkbox"/> SERVICES PERFORMED AT: ITEMS TO BE REDELIVERED TO:
TRANSFER OF FUNDS TO OTHER GOVT. AGENCY (specify if applicable)	

CONTRACT CLASSIFICATION SECRET	WORK CLASSIFICATION Unclassified	HARDWARE CLASSIFICATION N/A	REPORTS CLASSIFICATION SECRET
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SHORT SUBSTANTIVE TITLE AND/OR DESCRIPTION OF SERVICE TO BE PERFORMED

~~This program~~
Optical Image Manipulation. This program will establish an operational in-house facility for the manipulation of degraded imagery as an aid to photo interpretation

Declassification Review by NGA/DoD

(See reverse for specific information required on R&D requests.)

APPROVAL		
DESIGNATION	SIGNATURE	DATE

PROCUREMENT DIVISION USE			
DATE RECEIVED IN PD	RECORDED BY	SECTION ASSIGNED TO	NEGOTIATOR

☐ UNCLASSIFIED

☐ CONFIDENTIAL

☒ SECRET

(specify)

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1. JUSTIFICATION FOR SOURCE SELECTION

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~~The contractor~~
[redacted] has the scientific expertise required to conduct this project. ~~Some of the work involves application of the large portion of the work done in the past~~ a proprietary technique for characterization of the performance of the manipulation system, based on communication theory. Accordingly, no other proposals have been requested.

2. PROPOSAL

attached

3. DELIVERABLE ITEMS

REPORTS REQUIRED

5

NO. OF COPIES



MONTHLY



INTERIM



QUARTERLY



FINAL

HARDWARE (state type and number)

OTHER

4. GFE REQUIRED

none

5. SPECIAL INSTRUCTIONS

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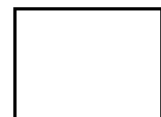
☒ SECRET

(specify)

R A T B

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TRANSMITTAL SLIP		DATE 14 Nov 70
TO RED/TSSG		
ROOM NO. 5S 453	BUILDING 	
REMARKS: NPIC/D-77/70 was forwarded to PPBS on 14 Nov 70. Optical Image Manipulation Techniques. <div style="text-align: right; font-family: cursive; font-size: 1.5em;">HOB</div>		
FROM: 		
ROOM NO. 6N 215		
FORM NO. 241 1 FEB 55		REPLACES FORM 36-8 WHICH MAY BE USED.



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SUBJECT: Proposed Contract with [REDACTED]
to Develop Optical Image Manipulation Techniques at a Cost
of [REDACTED]

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include extension of the power spectral density work to color film originals and the development of special holographic filters for improving degraded images of written material. The latter topic is of particular interest to TSD/DDP; consequently, coordination has been affected with [REDACTED] of that office.

d. The concepts to be used in this project are well established theoretically. Experimental work has demonstrated that some improvement, estimated subjectively, can be expected. The significance of the improvement, in terms of improved information extraction with large area operational imagery, has yet to be determined. While there is no guarantee of success, the risk is judged to be small in view of the digital results to date and the demonstrated expertise of the proposed contractor.

e. The deliverable items will consist of $2\frac{1}{2}$ man-years of scientific and technical support, a handbook of experimental and theoretical details necessary to employ Optical Image Manipulation Techniques, and preliminary design specifications for optical viewing systems.

4. [REDACTED] has exceptionally well-qualified personnel for this project. Their unsolicited proposal includes a proprietary theory for utilizing optical image manipulation to optimize information extraction from imagery. Accordingly, no other proposals have been considered.

5. Follow-on action at approximately the same level of effort is anticipated and would consist of a similar, but more advanced, applications oriented program, with major emphasis on optical-digital hybrid system characteristics. Specific projects resulting from this effort will be funded as separate R&D items and will not necessarily be with [REDACTED]

6. The [REDACTED] is appropriate; the Project Officer will assign security classifications to the individual reports.